### INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/24469

A. CLASSIFICATION OF SUBJECT MATTER  IPC(7) : A 61 N 1/00  US CL : 607/120  According to International Patent Classification (IPC) or to both national classification and IPC  B. FIELDS SEARCHED  Minimum documentation searched (classification system followed by classification symbols)  U.S.: 607/120, 17; 600/508, 514, 515, 519  Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched					
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)					
C. DOCUMENTS CONSIDERED TO BE REL	EVANT				
Category * Citation of document, with indic	ation, where ap	propriate,	of the relevant passages	Relevant to claim No.	
X US 5 334 222 A (SALO et al.) 02 Au		<del></del>		1, 2, 4	
Y 05 5 334 222 A (SALO et al.) 02 At		enne ux	·	3, 9	
Further documents are listed in the continuati	on of Box C	$\overline{\Box}$	See patent family annex.		
Special categories of cited documents:			later document published after the inte	mational filing date or priority	
"A" document defining the general state of the art which is not of particular relevance  "E" earlier application or patent published on or after the internal		-X*	date and not in conflict with the applic principle or theory underlying the inve- document of particular relevance; the considered novel or cannot be conside when the document is taken alone	ation but cited to understand the action cannot be claimed invention cannot be	
"L" document which may throw doubts on priority claim(s) or we establish the publication date of another citation or other specified)	ecial reason (as	«Y"	document of particular relevance; the considered to involve an inventive step combined with one or more other such	p when the document is a documents, such combination	
"O" document referring to an oral disclosure, use, exhibition or	outer means		being obvious to a person skilled in th	w ws	
"P" document published prior to the international filing date but later than the "&" document member of the same patent family priority date claimed					
Date of the actual completion of the international search  Date of mailing of the international search report  AMAY 2005					
16 March 2005 (16.03.2005)					
Name and mailing address of the ISA/US  Mail Stop PCT, Attn: ISA/US  Commissioner for Patents P.O. Box 1450  Alexandria, Virginia 22313-1450  Facsimile No. (703) 305-3230		LINDA			

Form PCT/ISA/210 (second sheet) (January 2004)

## PATENT COOPERATION TREATY

# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

REC'D	0.7	NOA	2005
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(PCT Article 36 and Rule 70)

Applicant's or agent's file reference	FOR FURTHER ACTION	1	See Form PCT/IPEA/416		
121873.00002-PCT	International filing date (day/m	nonth/vear)	Priority date (day/month/year)		
	ternational application 140.		29 July 2003 (29.07.2003)		
PCT/US04/24469  Leterational Patent Classification (IPC)	PCT/US04/24469 28 July 2004 (28.07.2004) 29 July 2003 (29.07.2003) International Patent Classification (IPC) or national classification and IPC				
			;		
IPC(7): A 61 N 1/00 and US Cl.: 607/12 Applicant	·				
MARCUS, FRANK I.					
1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.					
2. This REPORT consists of	f a total of Z sheets, including	ng this cover shee	t.		
3. This report is also accom-	panied by ANNEXES, compri	ising:			
a. (sent to the applic	ant and to the International B	Bureau) a total of	sheets, as follows:		
sheets of th	e description, claims and/or d	rawings which h	ave been amended and are the basis of		
this report	and/or sheets containing recti	ifications authori	zed by this Authority (see Rule 70.16		
and Section	607 of the Administrative In	structions).			
sheets which	h supersede earlier sheets, bu	t which this Aut	hority considers contain an amendment		
that goes b	eyond the disclosure in the in	ternational applic	cation as filed, as indicated in item 4 of		
BOX NO. 12	and the Supplemental Box.	Lof (indicate type	e and number of electronic carrier(s))		
b. sent to the Interceptain	ernanonal Bureau Omy) a lola ning a seguence listing and/	or tables related	thereto, in electronic form only, as		
indicated in f	he Supplemental Box Rela	ting to Sequen	ce Listing (see Section 802 of the		
Administrative	Instructions).	_			
4 This report contains ind	ications relating to the followi	ng items:			
4. This report contains indications relating to the following items:  Box No. I Basis of the report					
Box No. II					
	Priority		to the standard industrial		
Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability			novelty, inventive step and industrial		
Box No. IV	Lack of unity of invention				
Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability, citations and explanations supporting such statement				
Box No. VI Certain documents cited					
Box No. VII Certain defects in the international application					
Box No. VIII Certain observations on the international application					
Date of submission of the demand  Date of completion of this report					
04 February 2005 (04.02.2005)		09 September 200	5 (09.09.2005)		
Name and mailing address of the IPE	A/US	Authorized office	c\		
Mail Stop PCT, Attn: IPBA/U	S	ANDA STATE	1 1 V		
Commissioner for Patents P.O. Box 1450		AMDA SHOLL			
Alexandria, Virginia 22313-1450			71 272-4391		
Facsimile No. (703) 305-3230 Form PCT/IPEA/409 (cover sheet)(Ap	1 pril 2005)	<del></del>			
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I A DOCTOR A SECURIAL	PRELIMINARY	REPORTOR	AIRNIADILIIX

International application No.	
PCT/US04/24469	

Box 1	No.	I Basis of the report
1. W	/ith	regard to the language, this report is based on:
[		the international application in the language in which it was filed.
[		a translation of the international application into, which is the language of a translation furnished for the purposes of:
		international search (under Rules 12.3 and 23.1(b))
		publication of the international application (under Rule 12.4(a))
		international preliminary examination (under Rules 55.2(a) and/or 55.3(a))
t	o the	regard to the elements of the international application, this report is based on (replacement sheets which have been furnished e receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not xed to this report):
. [	$\boxtimes$	the international application as originally filed/furnished
	$\boxtimes$	the description:
		pages 1-21 as originally filed/furnished pages* NONE received by this Authority on
		pages* NONE received by this Authority on
	abla	• • "
	$\boxtimes$	the claims: pages 22-25 as originally filed/furnished
1		pages* NONE as amended (together with any statement) under Article 19
ļ		nages* NONE received by this Authority on
1		pages* NONE received by this Authority on
	$\boxtimes$	
		pages 1-5 as originally filed/furnished
		pages* NONE received by this Authority on pages* NONE received by this Authority on
}		• • • • • • • • • • • • • • • • • • • •
	L	a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.
3.		The amendments have resulted in the cancellation of:
1		the description, pages
		the claims, Nos
1		the drawings, sheets/figs
		the sequence listing (specify):
		any table(s) related to the sequence listing (specify):
4.	. [	This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).
		the description, pages
		the claims, Nos.
		the drawings, sheets/figs
		the sequence listing (specify):
		any table(s) related to the sequence listing (specify):
	* <i>T\$</i> :	tem 4 applies, some or all of those sheets may be marked "superseded."
F.	<i>1) !</i>	CCT/IPHA/409 (Rox No. I) (April 2005)

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/US04/24469

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
1. Statement				
Novelty (N)	Claims 3, 9-23	YES		
2.0.2007 (2.7)	Claims 1, 2, 4	МО		
Inventive Step (IS)	Claims 5-8, 10-23	YES		
inventive step (13)	Claims <u>1-4,9</u>			
Industrial Applicability (IA)	Claims <u>1-23</u>	YES		
industrial approximation (2-4)	Claims NONE	NO		

2. Citations and Explanations (Rule 70.7) Claims 1, 2 and 4 lack novelty under PCT Article 33(2) as being anticipated by SALO et al.

Claims 3 and 9 lack an inventive step under PCT Article 33(3) as being obvious over SALO et al.

Salo et al. show all of the claimed features except for a rate of change of ventricular pressure. One of ordinary skill in the art would have found it obvious to measure the rate of change of ventricular pressure because Salo et al. teach it is contemplated that a micromachined or piezoelectric pressure transducer may be mounted on the lead and position within the right ventricle to measure dP/dT.

Claims 5-8 and 10-23 meet the criteria set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest the claimed subject matter.

Claims 1-23 meet the criteria set out in PCT Article 33(4), and thus have industrial applicability because the subject matter claimed can be made or used in industry.

Form PCT/IPEA/409 (Box No. V) (April 2005)